## AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application. What is claimed is:

- 1. (Currently amended) A method for identification of a Gram positive pathogenic Gram positive bacterium organism or a subset of pathogenic Gram positive bacteria organisms being a member of from a predetermined group of pathogenic Gram positive bacteria in a clinical sample comprising:
  - a) providing a <u>said</u> clinical <u>sample specimen</u> containing at least partially purified nucleic acid,
  - b) subjecting said clinical <u>sample specimen</u> to at least one amplification step and at least one detection step <u>in one reaction vessel</u>, said steps comprising:
    - ba) an amplification step-using at least one set of amplification primers capable of amplifying a pre-selected nucleic acid sequence comprising at least 20 nucleotides of the 16S/23S spacer region from a predetermined sub-group of pathogenic Gram positive bacteria to which said Gram positive pathogenic Gram positive bacteria or subset of pathogenic Gram positive bacteria organism belongs,

## bb) at least one internal control template, and

bb) <u>bc</u>) a detection step using at least one hybridization reagent capable of detecting said pre-selected nucleic acid sequence region from said predetermined sub-group of pathogenic Gram positive bacteria, said detection step bb) further comprising:

bba) bca) monitoring hybridization of said hybridization reagent at a pre-selected temperature, said hybridization being indicative for the presence in the said clinical sample of at least one species contained in said predetermined sub-group, and

bbb) bcb) monitoring temperature dependence of hybridization, said temperature dependence being indicative for the presence of at least the

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species of said pathogenic Gram positive bacterium or said subset of pathogenic Gram positive bacteria organisms,

- e) wherein identifying said pathogenic Gram positive bacterium organism or said subset of pathogenic Gram positive bacteria organisms is identified based on the results of the monitoring steps in bca) and bcb). bb).
- 2. (Currently amended ) A <u>The</u> method according to claim 1, wherein said <u>predetermined</u> sub-group is a genus.
- 3. (Currently amended ) A <u>The</u> method according to claim 1, wherein the <u>said</u> hybridization reagent comprises two probes complementary to adjacent sequences in <u>said pre-selected</u> the target nucleic acid sequence <u>region</u>, one being <u>labeled labelled</u> by a <u>FRET Fluorescence</u> <u>Resonance Energy Transfer (FRET)</u> donor, and the other being <u>labeled labelled</u> by a FRET acceptor.
- 4. (Currently amended ) A <u>The</u> method according to claim 1, wherein said predetermined group of pathogenic Gram positive bacteria comprises the species <u>Staphylococcus aureus</u> and <u>coagulase-negative staphococci</u>. staphylococcus aureus and coagulase negative staphococci.
- 5. (Currently amended ) A <u>The</u> method according to claim 1, wherein the <u>said</u> predetermined sub-group comprises the species <u>Staphylococcus aureus</u>, <u>Streptococcus faecium</u> and <u>Enterococcus faecalis</u>. <del>Staphylococcus aureus</del>, <u>Streptococcus preumoniae</u>, <u>Enterococcus faecium</u> and <u>Enterococcus faecalis</u>.
- 6. Cancelled.
- 7. Cancelled.

- 8. (Currently amended ) A <u>The</u> method according to claim 1, wherein said species are selected from the genera <u>Staphylococcus</u>, <u>Enterococcus</u> and <u>Streptococcus</u>. <del>Staphylococcus</del>, <u>Enterococcus</u> and <u>Streptococcus</u>.
- 9. (Currently amended ) A <u>The</u> method according to claim 1, wherein said species are selected from the genus <u>Staphylococcus</u>. <u>Staphylococcus</u>
- 10. (Currently amended) A kit for the identification of a Gram positive pathogenic Gram positive bacterium or a subset of pathogenic Gram positive bacteria selected from the genera Enterococcus, Staphylococcus and Streptococcus Enterococcus, Staphylococcus and Streptococcus containing a comprising:
  - a) <u>at least one</u> set of <u>amplification</u> primers capable of amplifying a <u>pre-selected</u> <u>nucleic acid</u> sequence <u>comprising of</u> at least 20 nucleotides <u>of from</u> the 16S/23S rRNA spacer region of <u>Enterococcus</u>, <u>Staphylococcus</u> or <u>Streptococcus</u>.

    Enterococcus, <u>Staphylococcus</u> or <u>Streptococcus</u>,
  - b) at least one internal control template, and
  - c) <u>at least one hybridization reagent capable of detecting said pre-selected nucleic</u> <u>acid sequence</u>,

wherein said amplifying and detecting are performed in one reaction vessel.